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HARMAN technology Ltd

SAFETY DATA SHEET Perceptol Developer (Part A)

1. IDENTIFICATION

Product Name	Perceptol Developer (Part A)
Product No.	1960529
Internal Id	10024
Container Size	7g
Identification No.	3077
Identified uses	Photographic Developer
Supplier	Distributors USA: WYNIT Inc, 5801 East Taft Road, North Syracuse, NY 13212. Tel: 1 800 GO WYNIT (469 9648) or 1 315 437 4167, Fax: 1 315 437 0432 Canada: Amplis Foto Inc, 22 Telson Road, Markham, Ontario L3R 1E5, Tel: 905 477 4111, Fax: 905 477 2502
Contact Person	USA: ilfordhelp@wynit.com; Canada: phil.nielsen@amplis.com
Emergency Telephone	USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. HAZARD(S) IDENTIFICATION

Appearance	Powder, dust
Color	Cream. Brown.
Odor	No characteristic odor.
Contains	

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Materials Causing Other
Toxic Effects.

Controlled Product Classification

Canadian WHMIS Classification D2B

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

May cause discomfort if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Skin Contact

Powder may irritate skin. May cause sensitization by skin contact. May cause allergic contact eczema.

Eye Contact

Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation.

Health Warnings

Prolonged or repeated exposure may cause severe irritation. May cause skin irritation/eczema. May cause sensitization by skin contact. Dust may irritate respiratory system or lungs. May cause allergy. May cause hypersensitivity.

Route Of Entry

Inhalation. Ingestion. Skin and/or eye contact.

Medical Considerations

May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

Perceptol Developer (Part A)

3. COMPOSITION/INFORMATION ON INGREDIENTS

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE		70-90%
CAS No.: 55-55-0	EC No.: 200-237-1	
GHS Classification Acute Tox. 4 - H302; Skin Sens. 1 - H317; STOT RE 2 - H373; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410		

Composition Comments

Hazardous according to the criteria of Worksafe Australia

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation continues.

Eye Contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin Contact

May cause skin sensitisation.

Eye Contact

Irritation of eyes and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No specific first aid measures noted.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Use fire-extinguishing media appropriate for surrounding materials.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

In case of fire, toxic gases may be formed (COx, NOx).

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

Perceptol Developer (Part A)

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

Environmental Precautions

Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Spill Clean Up Methods

For waste disposal, see section 13. Small quantities may be flushed to drains with plenty of water. Prevent discharge of larger quantity to drain. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wash contaminated area with water. Do not let washing down water contaminate ponds or waterways.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Provide good ventilation. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations.

Storage

Store in closed original container in a dry place. Store under well-ventilated conditions at a temperature below 25°C.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

Wear suitable respiratory protection.

Hand Protection

Use protective gloves.

Eye Protection

Use eye protection.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder, dust
Color	Cream. Brown.
Odor	No characteristic odor.
Solubility	Soluble in water. 100%
pH-Value, Conc. Solution	4
Not available.	

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazards associated with this product.

Stability

Stable under the prescribed storage conditions. No particular stability concerns.

Perceptol Developer (Part A)

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid excessive heat for prolonged periods of time.

Materials To Avoid

Avoid contact with other photographic solutions and/or cleaning compounds.

Hazardous Decomposition Products

Fire or high temperatures create: Vapors/gases/fumes of: Oxides of: Carbon. Nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicological information

This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components that comprise the mixture.

Toxicological Information on Ingredients:

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE (CAS: 55-55-0)

Toxic Dose 1 - LD 50

237 mg/kg (oral rat)

Toxic Dose 2 - LD 50

>1000 mg/kg (skn-rat)

12. ECOLOGICAL INFORMATION

Toxicity

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Degradability

There are no data on the degradability of this product.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

None known.

Ecological Information on Ingredients:

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE (CAS: 55-55-0)

LC 50, 96 Hrs, Fish mg/l

0.25

EC 50, 48 Hrs, Daphnia, mg/l

0.02

IC 50, 72 Hrs, Algae, mg/l

10

13. DISPOSAL CONSIDERATIONS

Waste Management

The disposal process for this product when it becomes waste, depends largely upon how much (volume) waste is generated, where the waste is generated (location) and by whom (whether in a professional or amateur or other capacity). Therefore only outline guidance can be provided. For detailed guidance and advice on the disposal of this product when it becomes waste, please visit the COPPICE web site at <http://www.pic.uk.net/coppice/index.htm>. The information is relevant to both professional and amateur users.

Disposal Methods

Used, diluted, and spent solutions may be allowed to be discharged to sanitary sewer by permit IF allowed by local regulations. Consult your local authority for advice. Waste may have to be pre-treated before discharge. Consult local authorities before discharging any waste to sewer. Do not discharge to septic system. Waste that cannot be discharged to sewer may have to be handled by a licensed hazardous waste contractor.

Perceptol Developer (Part A)

14. TRANSPORT INFORMATION

General	Limited Quantity Exemption. No labeling or placarding required for land and air transport within the USA under 49CFR 171.4 or for land transport within Canada under SOR/2008-34.
UN No. (DOT/TDG)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077
DOT Proper Shipping Name	UN3077, Environmentally hazardous substance, solid, n.o.s. (contains bis-(4-hydroxy-N-methylanilinium) sulphate)
TDG Proper Shipping Name	UN3077, Environmentally hazardous substance, solid, n.o.s. (contains bis-(4-hydroxy-N-methylanilinium) sulphate)
IMDG Class	9
ICAO Class	9
Transport Labels	



IMDG Pack Group III

Air Pack Group III

Environmentally Hazardous Substance/Marine Pollutant



EMS F-A, S-F

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

TSCA: The ingredients of this product are on the TSCA Inventory.

US Federal Regulations

US State Regulations

State Regulations Comments

No information available.

16. OTHER INFORMATION

General Information

HARMAN technology Ltd believe the information and recommendations contained herein are based on correct and factual data. However, no express or implied guarantee or warranty of any kind is made with respect to this information. Use this information only to supplement other information you have gathered and then make an independent determination about the completeness and suitability of all information to ensure the proper use and disposal of this product and the health and safety of employees and customers.

Information Sources

European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984.

Perceptol Developer (Part A)

Issued By	HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com
Revision Date	11/19/2013
Revision	6
Supersedes Date	10/27/2010

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HARMAN technology Ltd

SAFETY DATA SHEET Perceptol Developer (Part B)

1. IDENTIFICATION

Product Name	Perceptol Developer (Part B)
Product No.	1960529
Internal Id	10025
Container Size	130g
Identified uses	Photographic Developer
Supplier	Distributors USA: WYNIT Inc, 5801 East Taft Road, North Syracuse, NY 13212. Tel: 1 800 GO WYNIT (469 9648) or 1 315 437 4167, Fax: 1 315 437 0432 Canada: Amplis Foto Inc, 22 Telson Road, Markham, Ontario L3R 1E5, Tel: 905 477 4111, Fax: 905 477 2502
Contact Person	Dr Trevor Rhodes, HARMAN technology Ltd, Tel: +44(0)1565 650000, email: trevor.rhodes@ilfordphoto.com
Emergency Telephone	USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. HAZARD(S) IDENTIFICATION

Appearance	Powder, dust
Color	White.
Odor	No characteristic odor.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Materials Causing Other
Toxic Effects.

Controlled Product Classification

This Product has been classified according to the hazard criteria of the Controlled Products Regulations and the MSDS contains all required information.

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

May cause discomfort if swallowed.

Skin Contact

Powder may irritate skin.

Eye Contact

Crystalline powder. May cause temporary eye irritation. Repeated exposure may cause chronic eye irritation.

Health Warnings

Dust may irritate respiratory system or lungs.

Route Of Entry

Inhalation. Ingestion. Skin and/or eye contact.

Medical Considerations

May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

Perceptol Developer (Part B)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Sodium Sulphite	70-90%
CAS No.: 7757-83-7	EC No.: 231-821-4
GHS Classification Not classified.	

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation continues.

Eye Contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin Contact

No specific symptoms noted.

Eye Contact

May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No specific first aid measures noted.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

The product is non-combustible. If heated, irritating vapors may be formed. Oxides of: Sulfur.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

Perceptol Developer (Part B)

Environmental Precautions

Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Spill Clean Up Methods

For waste disposal, see section 13. Wear necessary protective equipment. Small quantities may be flushed to drains with plenty of water. Prevent discharge of larger quantity to drain. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wash contaminated area with water.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Provide good ventilation. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations.

Storage

Store in closed original container in a dry place. Store under well-ventilated conditions at a temperature below 25°C.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

Wear suitable respiratory protection.

Hand Protection

Use protective gloves.

Eye Protection

Use eye protection.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder, dust
Color	White.
Odor	No characteristic odor.
Solubility	Soluble in water. 100%
pH-Value, Conc. Solution	10
Not applicable.	

10. STABILITY AND REACTIVITY

Reactivity

Generates toxic gas in contact with acid.

Stability

Avoid Contact with acids.

Hazardous Polymerisation

Will not polymerise.

Perceptol Developer (Part B)

Conditions To Avoid

Avoid contact with acids. Avoid excessive heat for prolonged periods of time.

Materials To Avoid

Strong acids. Avoid contact with other photographic solutions and/or cleaning compounds.

Hazardous Decomposition Products

Fire or high temperatures create: Vapors/gases/fumes of: Oxides of: Sulfur.

11. TOXICOLOGICAL INFORMATION

Toxicological information

This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components that comprise the mixture.

Toxicological Information on Ingredients:

Sodium Sulphite (CAS: 7757-83-7)

Toxic Dose 1 - LD 50

2610 mg/kg (oral rat)

12. ECOLOGICAL INFORMATION

Toxicity

The product is not expected to be hazardous to the environment.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

Ecological Information on Ingredients:

Sodium Sulphite (CAS: 7757-83-7)

LC 50, 96 Hrs, Fish mg/l

220 - 460

EC 50, 48 Hrs, Daphnia, mg/l

69

13. DISPOSAL CONSIDERATIONS

Waste Management

The disposal process for this product when it becomes waste, depends largely upon how much (volume) waste is generated, where the waste is generated (location) and by whom (whether in a professional or amateur or other capacity). Therefore only outline guidance can be provided. For detailed guidance and advice on the disposal of this product when it becomes waste, please visit the COPPICE web site at <http://www.pic.uk.net/coppice/index.htm>. The information is relevant to both professional and amateur users.

Disposal Methods

Used, diluted, and spent solutions may be allowed to be discharged to sanitary sewer by permit IF allowed by local regulations. Consult your local authority for advice. Waste may have to be pre-treated before discharge. Consult local authorities before discharging any waste to sewer. Do not discharge to septic system. Waste that cannot be discharged to sewer may have to be handled by a licensed hazardous waste contractor.

14. TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

Transport Labels

No transport warning sign required.

Perceptol Developer (Part B)

Environmentally Hazardous Substance/Marine Pollutant

No.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

TSCA: The ingredients of this product are on the TSCA Inventory.

US Federal Regulations

US State Regulations

State Regulations Comments

No information available.

16. OTHER INFORMATION

General Information

HARMAN technology Ltd believe the information and recommendations contained herein are based on correct and factual data. However, no express or implied guarantee or warranty of any kind is made with respect to this information. Use this information only to supplement other information you have gathered and then make an independent determination about the completeness and suitability of all information to ensure the proper use and disposal of this product and the health and safety of employees and customers.

Information Sources

European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984.

Issued By HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com

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